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NEWS 26 Sep 16 CA Section Thesaurus available in CAPLUS and CA  
NEWS 27 Oct 01 CASREACT Enriched with Reactions from 1907 to 1985  
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ENTRY	SESSION
4.39	4.60

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=> s shimeji

8	FILE AGRICOLA
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42	FILE BIOSIS
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58 FILE CAPLUS  
1 FILE CEABA-VTB  
1 FILE CONFSCI  
1 FILE CROPU  
3 FILE DDFB  
1 FILE DDFU  
42 FILES SEARCHED...  
29 FILE DGENE  
1 FILE DPCI  
3 FILE DRUGB  
2 FILE DRUGU  
11 FILE EMBASE  
1 FILE ENERGY  
11 FILE ESBIODBASE  
14 FILE EUROPATFULL  
6 FILE FROSTI  
13 FILE FSTA  
15 FILE GENBANK  
2 FILE IFIPAT  
1 FILE INIS  
12 FILE INPADOC  
7 FILE INVESTEXT  
38 FILE JAPIO  
56 FILE JICST-EPLUS  
83 FILES SEARCHED...  
6 FILE LIFESCI  
13 FILE MEDLINE  
6 FILE NAPRALERT  
11 FILE NLDB  
13 FILE PASCAL  
1 FILE PATOSEP  
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102 FILES SEARCHED...  
2 FILE PCTFULL  
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29 FILE PROMT  
23 FILE SCISEARCH  
13 FILE TOXCENTER  
125 FILES SEARCHED...  
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48 FILES HAVE ONE OR MORE ANSWERS, 134 FILES SEARCHED IN STNINDEX

L1 QUE SHIMEJI

=> FIL BIOSIS MEDLINE CAPLUS EMBASE SCISEARCH  
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ENTRY	SESSION
3.18	7.78

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=>

=> s shimeji

L2 147 SHIMEJI

=> s l2 and (dna or gene or genome or extract)

L3 32 L2 AND (DNA OR GENE OR GENOME OR EXTRACT)

=> dup rem l3

PROCESSING COMPLETED FOR L3

L4 18 DUP REM L3 (14 DUPLICATES REMOVED)

=> s l4 and py<=2000

1 FILES SEARCHED...

4 FILES SEARCHED...

L5 13 L4 AND PY<=2000

=> d l5 1-13 pn py au ab so ti ab

L5 ANSWER 1 OF 13 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

PY 2000

AU Sakai, Yoko; Hisauchi-Kojima, Kaoru; Umino, Takeshi (1); Atarashi, Kenichi; Miyake, Shuji; Yoshizawa, Yasuyuki

AB Respiratory symptoms and hypersensitivity pneumonitis (HP) among mushroom workers have been well documented. Inhalation of **shimeji** mushroom (*Tricholoma conglobatum*) spore has been assumed to be the cause of HP among indoor **shimeji** cultivating workers. We isolated and partially characterized the allergenic components of **shimeji**. The sera from 9 HP patients, 10 asymptomatic **shimeji** workers and 15 normal individuals were examined for **shimeji** specific IgG and IgA antibodies by ELISA using crude **shimeji extract**.

**Shimeji** specific IgG- and IgA-antibodies were higher in sera from HP patients than in sera from control subjects. Crude **shimeji** spore **extract** was separated and purified by HPLC followed by SDS-PAGE, and their antigenic activity was studied by immunoblotting with a pool of sera from patients. Sera from all HP patients showed IgG and IgA antibody activities to 21, 16 and 14 kD proteins extracted from **shimeji** spore. The 21 kD protein contained internal peptide amino acid sequence of Gly-Gly-Thr-Val-Ile-Asn-Leu-Leu-Gly, Gln-Arg-Phe-Glu-Glu and Gln-Gly-Ile-Tyr. These results demonstrate that **shimeji** spore **extract** contains multiple proteinous components, which have antigenic activity to react with the sera from HP patients among **shimeji** workers. These proteins may be the potent sensitizing allergens to cause HP among **shimeji** cultivating workers.

SO Journal of Medical and Dental Sciences, (Mar., 2000) Vol. 47, No. 1, pp. 67-75. print.  
ISSN: 1342-8810.

TI Purification and characterization of the allergenic components of **shimeji** mushroom (*Tricholoma conglobatum*) spore for **shimeji** workers' hypersensitivity pneumonitis.

AB Respiratory symptoms and hypersensitivity pneumonitis (HP) among mushroom workers have been well documented. Inhalation of **shimeji**

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mushroom (*Tricholoma conglobatum*) spore has been assumed to be the cause of HP among indoor **shimeji** cultivating workers. We isolated and partially characterized the allergenic components of **shimeji**. The sera from 9 HP patients, 10 asymptomatic **shimeji** workers and 15 normal individuals were examined for **shimeji** specific IgG and IgA antibodies by ELISA using crude **shimeji extract**. **Shimeji** specific IgG- and IgA-antibodies were higher in sera from HP patients than in sera from control subjects. Crude **shimeji** spore **extract** was separated and purified by HPLC followed by SDS-PAGE, and their antigenic activity was studied by immunoblotting with a pool of sera from patients. Sera from all HP patients showed IgG and IgA antibody activities to 21, 16 and 14 kD proteins extracted from **shimeji** spore. The 21 kD protein contained internal peptide amino acid sequence of Gly-Gly-Thr-Val-Ile-Asn-Leu-Leu-Gly, Gln-Arg-Phe-Glu-Glu and Gln-Gly-Ile-Tyr. These results demonstrate that **shimeji** spore **extract** contains multiple proteinous components, which have antigenic activity to react with the sera from HP patients among **shimeji** workers. These proteins may be the potent sensitizing allergens to cause HP among **shimeji** cultivating workers.

- L5 ANSWER 2 OF 13 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.  
 PY 2000  
 AU Ohtsuru, Masaru (1); Horio, Hiroyuki; Masui, Hironori (1)  
 AB We investigated the effects of water **extracts** of mushrooms on inhibiting the conversion of C 3H10T1/2 B2C1 cells into adipocytes. **Extracts** from Mushroom (*Agaricus bisporus*) and stipe of **Shimeji** (*Lyophyllum shimeji*) didn't inhibited cell conversion. On the other hand, **extracts** from Shiitake (*Lentinus edodes*), pileus of **Shimeji** (*Lyophyllum shimeji*), Enokitake (*Flammulina velutipes*), Matsutake (*Tricholoma matsutake*), and Maitake (*Grifola frondosa*) inhibited adipocyte conversion. These inhibitory activities disappeared by heat treatment.  
 SO Nippon Shokuhin Kagaku Kogaku Kaishi, (2000) Vol. 47, No. 5, pp. 394-396. print.  
 ISSN: 1341-027X.  
 TI Screening of various mushrooms with inhibitory activity of adipocyte conversion.  
 AB We investigated the effects of water **extracts** of mushrooms on inhibiting the conversion of C 3H10T1/2 B2C1 cells into adipocytes. **Extracts** from Mushroom (*Agaricus bisporus*) and stipe of **Shimeji** (*Lyophyllum shimeji*) didn't inhibited cell conversion. On the other hand, **extracts** from Shiitake (*Lentinus edodes*), pileus of **Shimeji** (*Lyophyllum shimeji*), Enokitake (*Flammulina velutipes*), Matsutake (*Tricholoma matsutake*), and Maitake (*Grifola frondosa*) inhibited adipocyte conversion. These inhibitory activities disappeared by heat treatment.
- L5 ANSWER 3 OF 13 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.  
 PY 1999  
 AU Saito, Takeshi (1); Tanaka, Norio (1)  
 AB The GPD **gene** encoding glyceraldehyde-3-phosphate dehydrogenase was isolated and characterized from the ectomycorrhizal basidiomycete *Lyophyllum shimeji*. This **gene** was a single copy and had a coding capacity of 337 amino acids interrupted by nine introns. The deduced amino-acid sequence of the protein encoded by this **gene** was highly homologous to those of the GPD **genes** from the saprophytic fungi *Schizophyllum commune*, *Phanerochaete chrysosporium*, and *Agaricus bisporus*, and the ectomycorrhizal fungi *Amanita muscaria*, *Boletus edulis*, and *Lactarius deterrimus*. The promoter region of L. **shimeji** GPD **gene** contained a CCAAT box, a TATAAAA box,

- and a CT-stretch. The major transcriptional initiation site was located 31 nucleotides downstream from the TATAAAA box and in the CT-stretch.
- SO Mycoscience, (Dec. 15, 1999) Vol. 40, No. 6, pp. 517-523.  
ISSN: 1340-3540.
- TI Cloning and sequence analysis of the glyceraldehyde-3-phosphate dehydrogenase **gene** from the ectomycorrhizal basidiomycete *Lyophyllum shineji*.
- AB The GPD **gene** encoding glyceraldehyde-3-phosphate dehydrogenase was isolated and characterized from the ectomycorrhizal basidiomycete *Lyophyllum shineji*. This **gene** was a single copy and had a coding capacity of 337 amino acids interrupted by nine introns. The deduced amino-acid sequence of the protein encoded by this **gene** was highly homologous to those of the GPD **genes** from the saprophytic fungi *Schizophyllum commune*, *Phanerochaete chrysosporium*, and *Agaricus bisporus*, and the ectomycorrhizal fungi *Amanita muscaria*, *Boletus edulis*, and *Lactarius deterrimus*. The promoter region of *L. shineji* GPD **gene** contained a CCAAT box, a TATAAAA box, and a CT-stretch. The major transcriptional initiation site was located 31 nucleotides downstream from the TATAAAA box and in the CT-stretch.
- L5 ANSWER 4 OF 13 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.  
PY 1994
- AU Yoshida, Hiroshi (1); Fujimoto, Suiseki; Hayashi, Junzo (1)
- AB The nutritional requirements for the vegetative growth of *Lyophyllum shineji* were investigated by use of a synthetic liquid medium. A wide range of carbohydrates served as carbon source in the medium which supported growth of *L. shineji*. Glucose, xylose, mannose, fructose, sucrose, dextrin, glycogen, pectin and soluble starch were especially good carbon sources for mycelial growth. Meat **extract**, Soyton, yeast **extract**, polypeptone, casamino acids and the amino acids mixture of the basal medium were acceptable nitrogen sources for the growth, while ammonium and nitrate salts were poor nitrogen sources. The amino acids mixture in the culture medium could be replaced by L-alanine, L-isoleucine, L-valine, L-glutamine, L-citrulline or L-serine. The vegetative mycelium did not grow in the absence of KH-2PO-4 and MgSO-4, and the yield of mycelium was decreased by the omission of ZnSO-4, FeSO-4, thiamine and nicotinamide. The vegetative growth was accelerated in the basal medium containing 0.1-1 mg/l of indole-3-acetic acid (IAA), kinetine, gibberellic acid, 1-naphthyl acetic acid (NAA) and 2,4-dichlorophenoxy acetic acid, but it was inhibited in the basal medium containing 10 mg/l of IAA and NAA.
- SO Nippon Kingakukai Kaiho, (1994) Vol. 35, No. 3, pp. 173-180.  
ISSN: 0029-0289.
- TI Nutritional requirements for the vegetative growth of *Lyophyllum shineji*.
- AB The nutritional requirements for the vegetative growth of *Lyophyllum shineji* were investigated by use of a synthetic liquid medium. A wide range of carbohydrates served as carbon source in the medium which supported growth of *L. shineji*. Glucose, xylose, mannose, fructose, sucrose, dextrin, glycogen, pectin and soluble starch were especially good carbon sources for mycelial growth. Meat **extract**, Soyton, yeast **extract**, polypeptone, casamino acids and the amino acids mixture of the basal medium were acceptable nitrogen sources for the growth, while ammonium and nitrate salts were poor nitrogen sources. The amino acids mixture in the culture medium could be replaced by L-alanine, L-isoleucine, L-valine, L-glutamine, L-citrulline or L-serine. The vegetative mycelium did not grow in the absence of KH-2PO-4 and MgSO-4, and the yield of mycelium was decreased by the omission of ZnSO-4, FeSO-4, thiamine and nicotinamide. The vegetative growth was accelerated in the basal medium containing 0.1-1 mg/l of indole-3-acetic

acid (IAA), kinetine, gibberellic acid, 1-naphthyl acetic acid (NAA) and 2,4-dichlorophenoxy acetic acid, but it was inhibited in the basal medium containing 10 mg/l of IAA and NAA.

- L5 ANSWER 5 OF 13 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.  
 PY 1994  
 AU Yoshida, Hiroshi (1); Fujimoto, Suiseki  
 AB Fruit-body formation of *Lyophyllum shimeji* was achieved on a solid medium. The solid medium was prepared in bags by adding 750 ml of liquid medium (recipe: soluble starch, 100 g; D-glucose, 25 g; pectin, 1 g; yeast extract, 3 g; KH-2PO-4, 0.5 g; MgSO-4-7H-2O, 0.5 g; thiamine-HCl, 1 mg; CaCO-3, 5 g; charcoal powder, 5 g; water, 860 ml) to 120 g of peat moss. Cultures were incubated in darkness for 90 days at 23 degree C, then under fluorescent lamp illumination (50 lux.) for 30 days at 16 degree C. Following transfer to light at 16 degree C, primordia appeared on the media after 13-15 days and grew into fruit-bodies after 14-17 days. All of 27 strains of *L. shimeji* formed fruit-bodies, and fruit-body yields were 14.6-62.7 g/bag.
- SO Nippon Kingakukai Kaiho, (1994) Vol. 35, No. 3, pp. 192-195.  
 ISSN: 0029-0289.
- TI A trial cultivation of *Lyophyllum shimeji* on solid media.  
 AB Fruit-body formation of *Lyophyllum shimeji* was achieved on a solid medium. The solid medium was prepared in bags by adding 750 ml of liquid medium (recipe: soluble starch, 100 g; D-glucose, 25 g; pectin, 1 g; yeast extract, 3 g; KH-2PO-4, 0.5 g; MgSO-4-7H-2O, 0.5 g; thiamine-HCl, 1 mg; CaCO-3, 5 g; charcoal powder, 5 g; water, 860 ml) to 120 g of peat moss. Cultures were incubated in darkness for 90 days at 23 degree C, then under fluorescent lamp illumination (50 lux.) for 30 days at 16 degree C. Following transfer to light at 16 degree C, primordia appeared on the media after 13-15 days and grew into fruit-bodies after 14-17 days. All of 27 strains of *L. shimeji* formed fruit-bodies, and fruit-body yields were 14.6-62.7 g/bag.
- L5 ANSWER 6 OF 13 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.  
 PY 1992  
 AU Moncalvo, J.-M  
 SO KOREAN MYCOLOGICAL SOCIETY, INTERNATIONAL MYCOLOGICAL ASSOCIATION COMMITTEE FOR ASIA.. (1992) pp. 208-219. Proceedings of the Asian Mycological Symposium.  
 Publisher: Korean Society of Mycology Seoul, Korea.  
 Meeting Info.: Meeting on the Role of Fungi as Frontiers of Biosciences Seoul, Korea October 1-4, 1992
- TI Ribosomal **DNA** and systematics of fungi: The section *Difformia* of the genus *Lyophyllum* as an example.
- L5 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2002 ACS  
 PATENT NO. KIND DATE  
 -----  
 PI JP 11127863 A2 19990518 <--  
 JP 2986437 B2 19991206  
 PY 1999  
 IN Saito, Takeshi  
 AB A promoter and a terminator of the **gene** for glyceraldehyde-3-phosphate dehydrogenase are isolated from *Lyophyllum shimeji* and used for constructing vectors useful for the transformation of *Lentinula edodes* and *Suillus granulatus*.
- SO Jpn. Kokai Tokkyo Koho, 9 pp.  
 CODEN: JKXXAF
- TI Cloning of promoter and terminator of **gene** for

- glyceraldehyde-3-phosphate dehydrogenase of *Lyophyllum shimeji* for preparation of vectors
- AB A promoter and a terminator of the **gene** for glyceraldehyde-3-phosphate dehydrogenase are isolated from *Lyophyllum shimeji* and used for constructing vectors useful for the transformation of *Lentinula edodes* and *Suillus granulatus*.
- L5 ANSWER 8 OF 13 CAPLUS COPYRIGHT 2002 ACS  
 PY 1993  
 AU Moncalvo, Jean Marc; Rehner, Stephen A.; Vilgalys, Rytas  
 AB Mol. sequence data were employed to det. phylogenetic relationships among species of agaric fungi in *Lyophyllum*. Pure cultures were obtained from taxa chosen to represent several sections within *Lyophyllum* including several species within the *L. decastes* complex. Cultures were also obtained from several species which might be related to *Lyophyllum*, including *L. ulmarium* (= *Hypsizygus ulmarius*) and *Tricholoma giganteum*. Anal. of culture characters for species which could be grown on malt-asparagine media revealed differences in growth and morphol. between species. For phylogenetic analyses, the polymerase chain reaction was employed to amplify a portion of the large subunit rRNA **gene** from genomic **DNA** samples for sequencing. Results of parsimony analyses based on 250 nucleotide positions from 18 strains support species groupings within the *L. decastes* complex which are consistent with differences in fruit body morphol. and culture characters. Results from these analyses also indicate that *L. connatum* is not monophyletic with other taxa from the *L. decastes* group, thus indicating that section *Difformia* is not monophyletic. A narrower circumscription is proposed for section *Difformia*, restricted to *L. decastes* and its closely related species.
- SO *Mycologia* (1993), 85(5), 788-94  
 CODEN: MYCOAE; ISSN: 0027-5514
- TI Systematics of *Lyophyllum* section *Difformia* based on evidence from culture studies and ribosomal **DNA** sequences
- AB Mol. sequence data were employed to det. phylogenetic relationships among species of agaric fungi in *Lyophyllum*. Pure cultures were obtained from taxa chosen to represent several sections within *Lyophyllum* including several species within the *L. decastes* complex. Cultures were also obtained from several species which might be related to *Lyophyllum*, including *L. ulmarium* (= *Hypsizygus ulmarius*) and *Tricholoma giganteum*. Anal. of culture characters for species which could be grown on malt-asparagine media revealed differences in growth and morphol. between species. For phylogenetic analyses, the polymerase chain reaction was employed to amplify a portion of the large subunit rRNA **gene** from genomic **DNA** samples for sequencing. Results of parsimony analyses based on 250 nucleotide positions from 18 strains support species groupings within the *L. decastes* complex which are consistent with differences in fruit body morphol. and culture characters. Results from these analyses also indicate that *L. connatum* is not monophyletic with other taxa from the *L. decastes* group, thus indicating that section *Difformia* is not monophyletic. A narrower circumscription is proposed for section *Difformia*, restricted to *L. decastes* and its closely related species.
- L5 ANSWER 9 OF 13 CAPLUS COPYRIGHT 2002 ACS  
 PY 1994  
 AU Yasukawa, Ken; Aoki, Takashi; Takido, Michio; Ikekawa, Tetsuro; Saito, Hideharu; Matsuzawa, Tsunetomo  
 AB An antitumor-promoting activity in two-stage carcinogenesis was found in the methanol and Et acetate **exts.** of the Japanese edible mushroom "*Buna-shimeji*", *Hypsizygus marmoreus*



(Tricholomataceae). From the active fractions of the **exts.**, two sterols, ergosterol and ergosterol peroxide, were isolated. The isolates showed inhibitory activity against 12-O-tetradecanoylphorbol-13-acetate induced ear inflammation in mice, and ergosterol markedly inhibited tumor promotion in a two-stage carcinogenesis expt. These sterols may be useful in developing an effective method of cancer prevention.

SO Phytotherapy Research (1994), 8(1), 10-13

CODEN: PHYREH; ISSN: 0951-418X

TI Inhibitory effects of ergosterol isolated from the edible mushroom *Hypsizigus marmoreus* on TPA-induced inflammatory ear edema and tumor promotion in mice

AB An antitumor-promoting activity in two-stage carcinogenesis was found in the methanol and Et acetate **exts.** of the Japanese edible mushroom "Buna-**shimeji**", *Hypsizigus marmoreus* (Tricholomataceae). From the active fractions of the **exts.**, two sterols, ergosterol and ergosterol peroxide, were isolated. The isolates showed inhibitory activity against 12-O-tetradecanoylphorbol-13-acetate induced ear inflammation in mice, and ergosterol markedly inhibited tumor promotion in a two-stage carcinogenesis expt. These sterols may be useful in developing an effective method of cancer prevention.

L5 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2002 ACS

PY 1993

AU Eto, Yoshiharu; Nishioka, Shigeko

AB RNase prodn. in the cultured broth of *Aspergillus niger* IFO4416 was markedly increased by the addn. of water **ext.** from **Shimeji** (*Lyophyllum aggregatum*) to the culture medium. Moreover, the addn. increased the specific activity of the RNase about 5-fold in comparison with that without the addn. The substance which accelerates the RNase prodn. was partially purified by heat treatment, ether fractionation, and gel filtration on Sephadex G-75 column. The substance was stable at 121.degree..

SO Chukyo Joshi Daigaku Kiyo (1980-1995) (1993), 27, 187-90

CODEN: CJDKEY; ISSN: 0389-2735

TI Accelerating effect of water **extract** from **Shimeji** (*Lyophyllum aggregatum*) on RNase activity of *Aspergillus niger*

AB RNase prodn. in the cultured broth of *Aspergillus niger* IFO4416 was markedly increased by the addn. of water **ext.** from **Shimeji** (*Lyophyllum aggregatum*) to the culture medium. Moreover, the addn. increased the specific activity of the RNase about 5-fold in comparison with that without the addn. The substance which accelerates the RNase prodn. was partially purified by heat treatment, ether fractionation, and gel filtration on Sephadex G-75 column. The substance was stable at 121.degree..

L5 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2002 ACS

PATENT NO. KIND DATE

	PATENT NO.	KIND	DATE	
PI	EP 462020	A2	19911218	<--
	EP 462020	A3	19920429	
	JP 04049242	A2	19920218	<--
	CA 2044802	AA	19911216	<--
PY	1991			
	1992			
	1992			
	1991			

IN Soma, Genichiro; Yoshimura, Kiyoshi; Tsukioka, Daisuke; Mizuno, Denichi; Oshima, Haruyuki

AB An antiherpes compn. comprises an effective amt. of a LPS (of vegetable or bacteria, or lipid A) whose macrophage activation ED50 = 0.4-100 ng/mL of

culture soln. in terms of its limulus test-pos. LPS content, in admixt. with a pharmaceutically or veterinarily acceptable carrier. LPS was prepd. from wheat flour and showed a mol. wt. of 8,000 (SDS electrophoresis), a P content of .gtoreq.1, a hexosamine content of 6, a fatty acid content of 6, and a KDO content of 5/mol. wt. of 8,000. The wheat LPS was effective in treating herpes virus infections. An injection contained wheat LPS 0.5 mg and distd. water for injection 1,000 mL.

SO Eur. Pat. Appl., 36 pp.

CODEN: EPXXDW

TI Macrophage-activating lipopolysaccharide (LPS) as antiherpes agents and veterinary antiherpes agent

AB An antiherpes compn. comprises an effective amt. of a LPS (of vegetable or bacteria, or lipid A) whose macrophage activation ED50 = 0.4-100 ng/mL of culture soln. in terms of its limulus test-pos. LPS content, in admixt. with a pharmaceutically or veterinarily acceptable carrier. LPS was prepd. from wheat flour and showed a mol. wt. of 8,000 (SDS electrophoresis), a P content of .gtoreq.1, a hexosamine content of 6, a fatty acid content of 6, and a KDO content of 5/mol. wt. of 8,000. The wheat LPS was effective in treating herpes virus infections. An injection contained wheat LPS 0.5 mg and distd. water for injection 1,000 mL.

L5 ANSWER 12 OF 13 CAPLUS COPYRIGHT 2002 ACS

PY 1985

AU Eto, Yoshiharu; Nishioka, Shigeko

AB RNase (I) activity in the culture broth of *A. niger* was considerably increased by the addn. of **shimeji** mushroom **ext.** This mushroom **ext.**-dependent I was sepd. from the culture broth by pptn. with acetone and purified by gel filtration on Sephadex G-75, followed by column chromatog. on DEAE-cellulose. Purified I was homogeneous by polyacrylamide gel electrophoresis, and the mol. wt. was estd. as 40,700 by gel filtration. The optimal pH and temp. for I were 4.0 and 65-70.degree., resp. I was markedly inactivated by Cu<sup>2+</sup> or Fe<sup>3+</sup>. I was nonspecific for nucleotide bases and produced 4 kinds of 3'-mononucleotides from yeast RNA.

SO Chukyo Joshi Daigaku Kiyo (1985), (19), 1-8

CODEN: CJDKEY

TI Purification and some properties of **shimeji** (*Lyophyllum aggregatum*) **extract**-dependent ribonuclease produced from *Aspergillus niger*

AB RNase (I) activity in the culture broth of *A. niger* was considerably increased by the addn. of **shimeji** mushroom **ext.** This mushroom **ext.**-dependent I was sepd. from the culture broth by pptn. with acetone and purified by gel filtration on Sephadex G-75, followed by column chromatog. on DEAE-cellulose. Purified I was homogeneous by polyacrylamide gel electrophoresis, and the mol. wt. was estd. as 40,700 by gel filtration. The optimal pH and temp. for I were 4.0 and 65-70.degree., resp. I was markedly inactivated by Cu<sup>2+</sup> or Fe<sup>3+</sup>. I was nonspecific for nucleotide bases and produced 4 kinds of 3'-mononucleotides from yeast RNA.

L5 ANSWER 13 OF 13 SCISEARCH COPYRIGHT 2002 ISI (R)

PY 1994

AU WATANABE K (Reprint); KAWAI M; OBATAKE Y

AB Fruiting body formation *Lyophyllum shimeji* (Kawan.) Hongo in pure cultures was attempted using a soil based medium which contained commercial soil for gardening, rice-bran, and yeast **extract**. To incubate the fungus for a long period, the water content of the medium was adjusted to approximately 50%. After an incubation of 146-228 days, the fully colonized media were moved to a fruiting room constantly controlled at 17-degrees-C. Six days later in the fruiting room, innumerable

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primordia were formed on the surfaces of the media. Some of the primordia continued growing to be immatures fruiting bodies. Seven of eight stocks were capable of forming primordia, and five of these continued growing to be fruiting bodies. The long-term incubation on soil based medium probably enabled the fungus to form primordia and fruiting bodies. It was shown that the mycorrhizal fungus, L. **shimeji**, can form fruiting bodies independently of host plants.

SO MOKUZAI GAKKAISHI, (1994) Vol. 40, No. 8, pp. 879-882.  
ISSN: 0021-4795.

TI FRUITING BODY FORMATION OF LYOPHYLLUM-**SHIMEJI** IN PURE CULTURES

AB Fruiting body formation *Lyophyllum shimeji* (Kawan.) Hongo in pure cultures was attempted using a soil based medium which contained commercial soil for gardening, rice-bran, and yeast **extract**. To incubate the fungus for a long period, the water content of the medium was adjusted to approximately 50%. After an incubation of 146-228 days, the fully colonized media were moved to a fruiting room constantly controlled at 17-degrees-C. Six days later in the fruiting room, innumerable primordia were formed on the surfaces of the media. Some of the primordia continued growing to be immatures fruiting bodies. Seven of eight stocks were capable of forming primordia, and five of these continued growing to be fruiting bodies. The long-term incubation on soil based medium probably enabled the fungus to form primordia and fruiting bodies. It was shown that the mycorrhizal fungus, L. **shimeji**, can form fruiting bodies independently of host plants.

=>

---Logging off of STN---

=>

Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	71.35	79.13
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-3.72	-3.72

STN INTERNATIONAL LOGOFF AT 12:35:14 ON 22 OCT 2002

08/03/01